

Use Attainability Analysis  
for  
WBID 0343 Mozingo Creek

Submitted by  
SES Inc.

to  
Missouri Department of Natural Resources  
Water Protection Program

Date received: November 14, 2007

**Field Data Sheets for Recreation Use Stream Surveys**

**Data Sheet A - Water Body Identification**

**I. Water Body Information** (For water body being surveyed)

Water Body Name (from USGS 7.5' quad):	Mozingo Cr.
Missouri Water Body Identification (WBID) Number:	343
8 digit HUC code: 10240013	County: Nodaway
Upstream Legal Description (from Table H):	T64N R35N SEC 38
Downstream Legal Description (from Table H):	T63N R35W SEC 3
Number of sites evaluated:	3
List all site numbers, listed consequently upstream to downstream: 1, 2, 3	

**Site Locations Map(s):** Attach a map of the entire segment with assessment sites clearly labeled. Mark any other items that may be of interest.

**II. Facility Information** (list all permitted discharges to the water body segment)

Facility Name(s) and Permit Number(s):  Mozingo L. Recreation Area  MO0129194
---

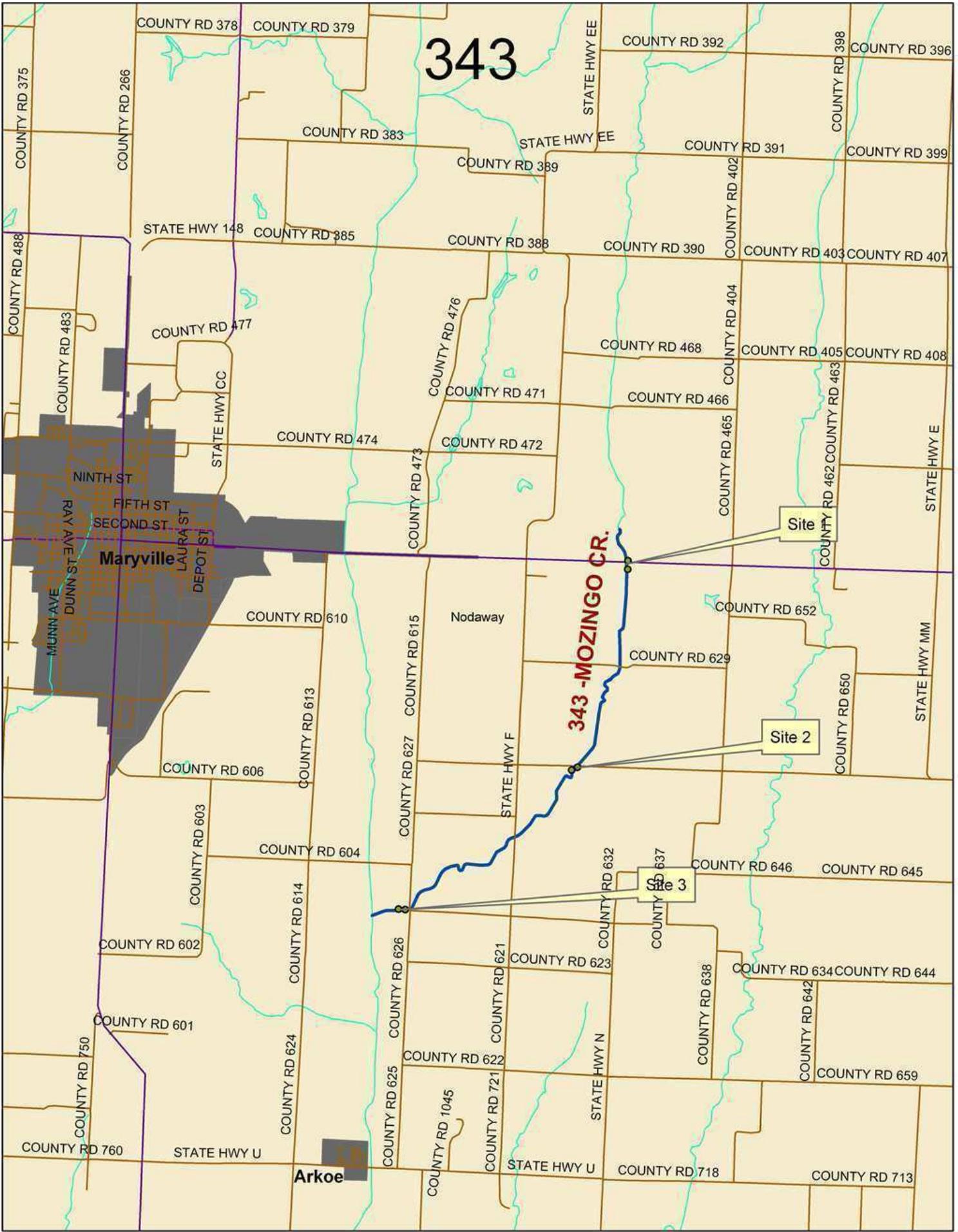
**III. UAA Surveyor** (please print legibly)

Name of Surveyor: Gilisa Gould	Telephone Number: 913-307-0054
Organization/Employer: SES, Inc	

**Please verify that you have completed all sections, checked all applicable boxes, and that the form is complete.**

**Signed:** gilisa gould **Date:** 10.04.07

343



Site

Site 2

Site 3

343-MOZINGO CR.

Maryville

Nodaway

Arkoe

WBID # 343  
 Site # 1

**Field Data Sheets For Recreational Use Stream Surveys**

**Data Sheet B-Site Characterization**

Date & Time: 9.18.07 14:25	Site Location Description (e.g. road crossing):
Personnel: D. Dodson & G. Gould	Highway 136
Current Weather Conditions: cloudy	Facility Name: Mozingo L. Rec. Area
Weather conditions for the past 10 days: no precip.	Permit Number: MO 0129194
Drought conditions?: No drought <input checked="" type="checkbox"/> ; Phase I <input type="checkbox"/> ; Phase II <input type="checkbox"/> ; Phase III <input type="checkbox"/> ; Phase IV <input type="checkbox"/> ; Unknown <input type="checkbox"/>	

**Site Location:**

Location Coordinates (Universal Transverse Mercator Projection, In Meters)					
Site 01	Easting (UTM X):	Northing (UTM Y):	Horizontal Accuracy:	Meters	
	0348864	4467524		4.0	
Site 11	Easting (UTM X):	Northing (UTM Y):	Horizontal Accuracy:	Meters	
	0348858	4467385		3.3	

**Photos:**

Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
30	upstream	31	downstream		
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose

**Uses Observed:**

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin diving	<input type="checkbox"/> SCUBA diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water Skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:
Describe:				

WBID # 343  
 Site # 1

**Field Data Sheets for Recreational Use Stream Surveys**

**Data Sheet B- Site Characterization (Continued)**

**Surrounding Conditions:**

<input type="checkbox"/> City/County parks	<input type="checkbox"/> playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Rural Residential
<input type="checkbox"/> Campgrounds	<input type="checkbox"/> State parks	<input type="checkbox"/> National Forests	<input checked="" type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkways
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> Fence	<input type="checkbox"/> No trespass sign	<input checked="" type="checkbox"/> Steep Slopes	<input type="checkbox"/> Other:
Comments: none				

**Evidence of Human Use:**

<input type="checkbox"/> Roads	<input type="checkbox"/> Foot path/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Rope swings
<input type="checkbox"/> RV/ATV Tracks	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle	<input type="checkbox"/> Livestock watering
comments/other: none				

**Substrate:**

% Cobble	% Gravel	% Sand 50	% Silt 10	% Mud/Clay 40	% Bedrock
----------	----------	--------------	--------------	------------------	-----------

**Aquatic Vegetation:**

5% coontail? milfoil? chara? 15% algae on substrate
--

**Water Characteristics:**

Odor:	<input type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Color:	<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Green	<input type="checkbox"/> Gray	<input type="checkbox"/> Milky	<input type="checkbox"/> Other:
Bottom Deposit:	<input type="checkbox"/> Sludge	<input type="checkbox"/> Solids	<input type="checkbox"/> Fine sediments	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Surface Deposit:	<input checked="" type="checkbox"/> Oil	<input type="checkbox"/> Scum	<input type="checkbox"/> Foam	<input type="checkbox"/> None	<input type="checkbox"/> Other:

WBID # 343  
Site # 1

**Field Data Sheets for Recreational Use Stream Surveys**

**Data Sheet B - Site Characterization (continued)**

**Additional Stream Morphology:** (Record isolated pools or other features identified during the survey that may support recreational uses)

Channel Feature	Distance from access location (m)	Width (m)	Length (m)	Median Depth (m)	Max Depth (m)

**Comments:** (Please record any additional comments here.)

none

**Please verify that you have completed all sections, checked all applicable boxes, and that the form is complete.**

Surveyor's Signature: gilisa gould Date of Survey: 9.18.07

Organization: SES, Inc. Position: field team leader

## Field Data Sheets for Recreational Use Stream Surveys

### Data Sheet C - Field Survey Results

Waterbody ID: <u>343</u> Site #: <u>1</u>  Estimated Channel Incision: <u>2.3</u> (m) (height between low bank width and water)  GPS Location - Easting (UTM X), Northing (UTM Y), Horizontal Accuracy Estimate (EPE / PDOP / FOM) <b>01</b> UTM X: <u>0348864</u> UTM Y: <u>4467524</u> +/- <u>4</u> (meters) <b>11</b> UTM X: <u>0348858</u> UTM Y: <u>4467385</u> +/- <u>3.3</u> (meters)  Average Stream Width: <u>3.1</u> (meters)                      Length of Survey Segment: <u>150</u> (meters) (To determine Length of Reach)                      (20x average stream width)  Field Staff: <u>Drew Dodson and Gilisa Gould</u>	<h4 style="text-align: center; margin: 0;">Dissolved Oxygen</h4> Date: <u>9.18.07</u> Time: <u>14:25</u>  Dissolved Oxygen: <u>9.9</u> (mg/L)  Dissolved Oxygen: _____ (% sat)  Specific Cond: _____ (µS/cm)  Water Temperature: <u>23.9</u> (°C)
--	---

#### Transect Cross-Section

Station		01		02		03		04		05		06		07		08		09		10		11	
		Distance (m)	Depth (m)																				
<b>Left Bank</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0.4	0.05	0.4	0.05	0.4	0.05	0.5	0.05	0.4	0.05	0.4	0.05	0.3	0.10	0.3	0.05	0.4	0.05	0.2	0.05	0.2	0.00	
2	0.7	0.15	0.7	0.15	0.7	0.10	0.9	0.10	0.7	0.15	0.7	0.05	0.5	0.20	0.5	0.15	0.7	0.10	0.4	0.10	0.4	0.05	
3	1.1	0.15	1.1	0.15	1.1	0.20	1.4	0.20	1.1	0.10	1.1	0.10	0.8	0.20	0.8	0.20	1.1	0.20	0.5	0.15	0.5	0.10	
4	1.5	0.15	1.5	0.10	1.5	0.30	1.8	0.40	1.5	0.10	1.5	0.10	1.1	0.20	1.1	0.25	1.5	0.25	0.7	0.10	0.7	0.15	
5	1.9	0.10	1.9	0.10	1.9	0.35	2.3	0.45	1.9	0.15	1.9	0.10	1.4	0.25	1.4	0.25	1.9	0.25	0.9	0.10	0.9	0.20	
6	2.2	0.10	2.2	0.10	2.2	0.40	2.8	0.55	2.2	0.15	2.2	0.10	1.6	0.10	1.6	0.25	2.2	0.30	1.1	0.10	1.1	0.20	
7	2.6	0.10	2.6	0.15	2.6	0.35	3.2	0.50	2.6	0.10	2.6	0.05	1.9	0.10	1.9	0.20	2.6	0.20	1.3	0.10	1.3	0.20	
8	3.0	0.10	3.0	0.15	3.0	0.10	3.7	0.30	3.0	0.15	3.0	0.05	2.2	0.10	2.2	0.10	3.0	0.15	1.4	0.05	1.4	0.15	
9	3.3	0.10	3.3	0.10	3.3	0.05	4.1	0.20	3.3	0.10	3.3	0.05	2.4	0.05	2.4	0.05	3.3	0.10	1.6	0.05	1.6	0.10	
<b>Right Bank</b>	3.7	0.00	3.7	0.00	3.7	0.00	4.6	0.00	3.7	0.00	3.7	0.00	2.7	0.00	2.7	0.00	3.7	0.00	1.8	0.00	1.8	0.00	
<b>Feature Type</b> <small>(riffle, run, or pool)</small>	run		run		run		run		run		run		run		run		run		run		run		

**Notes:** Transects will be measured beginning on left descending bank (0 depth) and finishing on right descending bank (0 depth). This width is the wetted width

GPS locations corresponds to Transect 01 and 11. Transects ordered in upstream to downstream order.

Depth measurements taken at 10 equally spaced locations along transect (determine by dividing wetted width by ten)

Mark dry depth measurements as 0; record actual measurements to 0.01 meter unless depth is too deep to measure (then record as > 1)

All measurements to be taken to the nearest 0.01 meter.

Signed: gilisa gould                      Date: 10.04.07

WBID # 343  
 Site # 2

**Field Data Sheets For Recreational Use Stream Surveys**

**Data Sheet B-Site Characterization**

Date & Time: 9.18.07	15:10	Site Location Description (e.g. road crossing):
Personnel: D. Dodson & G. Gould		Highway F
Current Weather Conditions: rainy		Facility Name: Mozingo L. Rec. Area
Weather conditions for the past 10 days: no precip		Permit Number: MO 0129194
Drought conditions?: No drought <input checked="" type="checkbox"/> ; Phase I <input type="checkbox"/> ; Phase II <input type="checkbox"/> ; Phase III <input type="checkbox"/> ; Phase IV <input type="checkbox"/> ; Unknown <input type="checkbox"/>		

**Site Location:**

Location Coordinates (Universal Transverse Mercator Projection, In Meters)					
Site 01	Easting (UTM X):	Northing (UTM Y):	Horizontal Accuracy:	Meters	
	0348071	4464286		4.0	
Site 11	Easting (UTM X):	Northing (UTM Y):	Horizontal Accuracy:	Meters	
	0347980	4464243		5.2	

**Photos:**

Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
32	downstream	33	upstream		
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose

**Uses Observed:**

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin diving	<input type="checkbox"/> SCUBA diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water Skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:
Describe:				

WBID # 343  
 Site # 2

**Field Data Sheets for Recreational Use Stream Surveys**

**Data Sheet B- Site Characterization (Continued)**

**Surrounding Conditions:**

<input type="checkbox"/> City/County parks	<input type="checkbox"/> playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Rural Residential
<input type="checkbox"/> Campgrounds	<input type="checkbox"/> State parks	<input type="checkbox"/> National Forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkways
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> Fence	<input type="checkbox"/> No trespass sign	<input checked="" type="checkbox"/> Steep Slopes	<input type="checkbox"/> Other:

Comments:

none

**Evidence of Human Use:**

<input type="checkbox"/> Roads	<input type="checkbox"/> Foot path/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Rope swings
<input type="checkbox"/> RV/ATV Tracks	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle	<input type="checkbox"/> Livestock watering

comments/other:

none

**Substrate:**

% Cobble	% Gravel	% Sand 70	% Silt	% Mud/Clay 30	% Bedrock
----------	----------	--------------	--------	------------------	-----------

**Aquatic Vegetation:**

none, except on banks

**Water Characteristics:**

Odor:	<input type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Color:	<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Green	<input type="checkbox"/> Gray	<input type="checkbox"/> Milky	<input type="checkbox"/> Other:
Bottom Deposit:	<input type="checkbox"/> Sludge	<input type="checkbox"/> Solids	<input type="checkbox"/> Fine sediments	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Surface Deposit:	<input type="checkbox"/> Oil	<input type="checkbox"/> Scum	<input type="checkbox"/> Foam	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:

WBID # 343  
Site # 2

**Field Data Sheets for Recreational Use Stream Surveys**

**Data Sheet B - Site Characterization (continued)**

**Additional Stream Morphology:** (Record isolated pools or other features identified during the survey that may support recreational uses)

Channel Feature	Distance from access location (m)	Width (m)	Length (m)	Median Depth (m)	Max Depth (m)

**Comments:** (Please record any additional comments here.)

none

**Please verify that you have completed all sections, checked all applicable boxes, and that the form is complete.**

Surveyor's Signature: gilisa gould Date of Survey: 9.18.07

Organization: SES, Inc Position: field team leader

## Field Data Sheets for Recreational Use Stream Surveys

### Data Sheet C - Field Survey Results

Waterbody ID: <u>343</u> Site #: <u>2</u>  Estimated Channel Incision: <u>0.5</u> (m) (height between low bank width and water)  GPS Location - Easting (UTM X), Northing (UTM Y), Horizontal Accuracy Estimate (EPE / PDOP / FOM) <b>01</b> UTM X: <u>0348071</u> UTM Y: <u>4464286</u> +/- <u>4</u> (meters) <b>11</b> UTM X: <u>0347980</u> UTM Y: <u>4464243</u> +/- <u>5.2</u> (meters)  Average Stream Width: <u>2.8</u> (meters)                      Length of Survey Segment: <u>150</u> (meters) (To determine Length of Reach)                      (20x average stream width)  Field Staff: <u>Drew Dodson</u> and <u>Gilisa Gould</u>	<b>Dissolved Oxygen</b>  Date: <u>9.18.07</u> Time: <u>15:12</u>  Dissolved Oxygen: <u>8.4</u> (mg/L)  Dissolved Oxygen: _____ (% sat)  Specific Cond: _____ (µS/cm)  Water Temperature: <u>24.2</u> (°C)
---	---

#### Transect Cross-Section

Station		01		02		03		04		05		06		07		08		09		10		11	
		Distance (m)	Depth (m)																				
<b>Left Bank</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1	0.2	0.05	0.3	0.05	0.4	0.05	0.3	0.10	0.3	0.05	0.4	0.05	0.4	0.05	0.4	0.05	0.2	0.05	0.2	0.05	0.3	0.05	
2	0.4	0.05	0.5	0.05	0.7	0.00	0.5	0.05	0.5	0.10	0.7	0.05	0.7	0.05	0.7	0.10	0.4	0.05	0.4	0.05	0.5	0.10	
3	0.5	0.10	0.8	0.05	1.1	0.00	0.8	0.10	0.8	0.05	1.1	0.00	1.1	0.00	1.1	0.05	0.5	0.05	0.5	0.05	0.8	0.10	
4	0.7	0.10	1.1	0.05	1.5	0.00	1.1	0.10	1.1	0.00	1.5	0.05	1.5	0.05	1.5	0.00	0.7	0.10	0.7	0.05	1.1	0.10	
5	0.9	0.05	1.4	0.05	1.9	0.10	1.4	0.05	1.4	0.00	1.9	0.05	1.9	0.10	1.9	0.00	0.9	0.05	0.9	0.10	1.4	0.05	
6	1.1	0.10	1.6	0.05	2.2	0.10	1.6	0.05	1.6	0.05	2.2	0.05	2.2	0.05	2.2	0.00	1.1	0.05	1.1	0.15	1.6	0.05	
7	1.3	0.10	1.9	0.05	2.6	0.00	1.9	0.05	1.9	0.10	2.6	0.05	2.6	0.05	2.6	0.05	1.3	0.05	1.3	0.15	1.9	0.10	
8	1.4	0.05	2.2	0.10	3.0	0.05	2.2	0.05	2.2	0.10	3.0	0.05	3.0	0.10	3.0	0.05	1.4	0.10	1.4	0.10	2.2	0.00	
9	1.6	0.05	2.4	0.05	3.3	0.00	2.4	0.05	2.4	0.05	3.3	0.05	3.3	0.10	3.3	0.10	1.6	0.10	1.6	0.05	2.4	0.05	
<b>Right Bank</b>	1.8	0.00	2.7	0.00	3.7	0.00	2.7	0.00	2.7	0.00	3.7	0.00	3.7	0.00	3.7	0.00	1.8	0.00	1.8	0.00	2.7	0.00	
<b>Feature Type</b> <small>(riffle, run, or pool)</small>	run		run		run		run		run		run		run		run		run		run		run		

**Notes:** Transects will be measured beginning on left descending bank (0 depth) and finishing on right descending bank (0 depth). This width is the wetted width  
 GPS locations corresponds to Transect 01 and 11. Transects ordered in upstream to downstream order.  
 Depth measurements taken at 10 equally spaced locations along transect (determine by dividing wetted width by ten)  
 Mark dry depth measurements as 0; record actual measurements to 0.01 meter unless depth is too deep to measure (then record as > 1)  
 All measurements to be taken to the nearest 0.01 meter.

Signed: gilisa gould                      Date: 10.04.07

WBID # 343  
 Site # 3

**Field Data Sheets For Recreational Use Stream Surveys**

**Data Sheet B-Site Characterization**

Date & Time: 9.18.07	16:00	Site Location Description (e.g. road crossing):
Personnel: D. Dodson & G. Gould		CR 723
Current Weather Conditions: rain		Facility Name: Mozingo L. Rec. Area
Weather conditions for the past 10 days: no precip.		Permit Number: MO 0129194
Drought conditions?: No drought <input checked="" type="checkbox"/> ; Phase I <input type="checkbox"/> ; Phase II <input type="checkbox"/> ; Phase III <input type="checkbox"/> ; Phase IV <input type="checkbox"/> ; Unknown <input type="checkbox"/>		

**Site Location:**

Location Coordinates (Universal Transverse Mercator Projection, In Meters)					
Site 01	Easting (UTM X):	Northing (UTM Y):	Horizontal Accuracy:	Meters	
	0345375	4462051		5.8	
Site 11	Easting (UTM X):	Northing (UTM Y):	Horizontal Accuracy:	Meters	
	0345270	4462066		6.4	

**Photos:**

Photo ID#	Photo Purpose	Photo ID#:	Photo Purpose	Photo ID#:	Photo Purpose
34	downstream	35	upstream	36	trash and log jam
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
37	fallen tree				
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose

**Uses Observed:**

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin diving	<input type="checkbox"/> SCUBA diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water Skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:
Describe:				

WBID # 343  
 Site # 3

**Field Data Sheets for Recreational Use Stream Surveys**

**Data Sheet B- Site Characterization (Continued)**

**Surrounding Conditions:**

<input type="checkbox"/> City/County parks	<input type="checkbox"/> playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Rural Residential
<input type="checkbox"/> Campgrounds	<input type="checkbox"/> State parks	<input type="checkbox"/> National Forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkways
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> Fence	<input type="checkbox"/> No trespass sign	<input checked="" type="checkbox"/> Steep Slopes	<input type="checkbox"/> Other:

Comments:

none

**Evidence of Human Use:**

<input type="checkbox"/> Roads	<input type="checkbox"/> Foot path/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Rope swings
<input type="checkbox"/> RV/ATV Tracks	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle	<input type="checkbox"/> Livestock watering

comments/other:

none

**Substrate:**

% Cobble	% Gravel	% Sand 60	% Silt	% Mud/Clay 40	% Bedrock
----------	----------	--------------	--------	------------------	-----------

**Aquatic Vegetation:**

only on banks

**Water Characteristics:**

Odor:	<input type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Color:	<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Green	<input type="checkbox"/> Gray	<input type="checkbox"/> Milky	<input type="checkbox"/> Other:
Bottom Deposit:	<input type="checkbox"/> Sludge	<input type="checkbox"/> Solids	<input type="checkbox"/> Fine sediments	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Surface Deposit:	<input type="checkbox"/> Oil	<input type="checkbox"/> Scum	<input type="checkbox"/> Foam	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:

WBID # 343  
Site # 3

**Field Data Sheets for Recreational Use Stream Surveys**

**Data Sheet B - Site Characterization (continued)**

**Additional Stream Morphology:** (Record isolated pools or other features identified during the survey that may support recreational uses)

Channel Feature	Distance from access location (m)	Width (m)	Length (m)	Median Depth (m)	Max Depth (m)

**Comments:** (Please record any additional comments here.)

none

**Please verify that you have completed all sections, checked all applicable boxes, and that the form is complete.**

Surveyor's Signature: gilisa gould Date of Survey: 9.18.07

Organization: SES, Inc Position: field team leader

## Field Data Sheets for Recreational Use Stream Surveys

### Data Sheet C - Field Survey Results

Waterbody ID: <u>343</u> Site #: <u>3</u>  Estimated Channel Incision: <u>0.5</u> (m) (height between low bank width and water)  GPS Location - Easting (UTM X), Northing (UTM Y), Horizontal Accuracy Estimate (EPE / PDOP / FOM) <b>01</b> UTM X: <u>0345375</u> UTM Y: <u>4462056</u> +/- <u>5.8</u> (meters) <b>11</b> UTM X: <u>0345270</u> UTM Y: <u>4462066</u> +/- <u>6.4</u> (meters)  Average Stream Width: <u>5</u> (meters)                      Length of Survey Segment: <u>150</u> (meters) (To determine Length of Reach)                      (20x average stream width)  Field Staff: <u>Drew Dodson</u> and <u>Gilisa Gould</u>	<b>Dissolved Oxygen</b>  Date: <u>9.18.07</u> Time: <u>16:00</u>  Dissolved Oxygen: <u>11.3</u> (mg/L)  Dissolved Oxygen: _____ (% sat)  Specific Cond: _____ (µS/cm)  Water Temperature: <u>22.6</u> (°C)
---	--

#### Transect Cross-Section

Station		01		02		03		04		05		06		07		08		09		10		11	
		Distance (m)	Depth (m)																				
<b>Left Bank</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0.3	0.05	0.4	0.05	0.4	0.05	0.3	0.01	0.3	0.05	0.4	0.01	0.5	0.10	0.6	0.05	0.8	0.01	0.8	0.01	0.8	0.05	
2	0.5	0.10	0.7	0.10	0.7	0.10	0.5	0.15	0.5	0.25	0.7	0.05	0.9	0.30	1.3	0.20	1.6	0.25	1.6	0.10	1.6	0.05	
3	0.8	0.15	1.1	0.10	1.1	0.10	0.8	0.20	0.8	0.50	1.1	0.10	1.4	0.40	1.9	0.25	2.5	0.20	2.5	0.10	2.5	0.00	
4	1.1	0.10	1.5	0.10	1.5	0.05	1.1	0.30	1.1	0.70	1.5	0.15	1.8	0.60	2.6	0.30	3.3	0.20	3.3	0.00	3.3	0.00	
5	1.4	0.10	1.9	0.05	1.9	0.10	1.4	0.35	1.4	0.60	1.9	0.10	2.3	0.80	3.2	0.20	4.1	0.20	4.1	0.00	4.1	0.00	
6	1.6	0.10	2.2	0.05	2.2	0.15	1.6	0.20	1.6	0.45	2.2	0.15	2.8	1.00	3.8	0.30	4.9	0.15	4.9	0.05	4.9	0.00	
7	1.9	0.10	2.6	0.10	2.6	0.25	1.9	0.10	1.9	0.45	2.6	0.20	3.2	1.00	4.5	0.35	5.7	0.10	5.7	0.05	5.7	0.05	
8	2.2	0.05	3.0	0.10	3.0	0.15	2.2	0.10	2.2	0.45	3.0	0.20	3.7	1.00	5.1	0.25	6.6	0.10	6.6	0.20	6.6	0.00	
9	2.4	0.05	3.3	0.05	3.3	0.20	2.4	0.01	2.4	0.45	3.3	0.10	4.1	1.00	5.8	0.15	7.4	0.05	7.4	0.25	7.4	0.10	
<b>Right Bank</b>	2.7	0.00	3.7	0.00	3.7	0.00	2.7	0.00	2.7	0.00	3.7	0.00	4.6	0.00	6.4	0.00	8.2	0.00	8.2	0.00	8.2	0.00	
<b>Feature Type</b> <small>(riffle, run, or pool)</small>	run		run		run		run		run		run		run		run		run		run		run		

**Notes:** Transects will be measured beginning on left descending bank (0 depth) and finishing on right descending bank (0 depth). This width is the wetted width  
 GPS locations corresponds to Transect 01 and 11. Transects ordered in upstream to downstream order.  
 Depth measurements taken at 10 equally spaced locations along transect (determine by dividing wetted width by ten)  
 Mark dry depth measurements as 0; record actual measurements to 0.01 meter unless depth is too deep to measure (then record as > 1)  
 All measurements to be taken to the nearest 0.01 meter.

Signed: gilisa gould                      Date: 10.04.07

**WBID# 0343**



**Site# 1 Photo ID# 30, Upstream**



**Site# 1 Photo ID# 31, Downstream**



**Site# 2 Photo ID# 32, Downstream**



**Site# 2 Photo ID# 33, Upstream**

**WBID# 0343**



**Site# 3 Photo ID# 34, Downstream**



**Site# 3 Photo ID# 35, Upstream**



**Site# 3 Photo ID# 36, Trash and log jam**



**Site# 3 Photo ID# 37, Fallen tree**